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# Hijacking Computers to Mine Cryptocurrency Is All the Rage

Hackers are using old tricks and new cryptocurrencies to turn stolen computing power into digital coins.

by Mike Orcutt    October 5, 2017



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**H**ave you visited Showtime's website recently? If so, you may be a cryptocurrency miner. An observant Twitter user was the

first to sound an alarm last month that the source code for the Showtime Anytime website contained a tool that was secretly hijacking visitors' computers to mine Monero, a Bitcoin-like digital currency focused on anonymity.

It's still not clear how the tool got there, and Showtime quickly removed it after it was pointed out. But if it was the work of hackers, the episode is actually part of a larger trend: security experts have seen a spike in cyberattacks this year that are aimed at stealing computer power for mining operations. Mining is a computationally intensive process that computers comprising a cryptocurrency network complete to verify the transaction record, called the blockchain, and receive digital coins in return (see "[What Bitcoin Is, and Why It Matters](#)").



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Lately the same mining tool that appeared on Showtime's website has been showing up all over the Internet. Released just last month by a company called [Coinhive](#), the tool is supposed to give website owners a way to make money without displaying ads. But malware authors seem to be among its most voracious early adopters. In [the past few weeks](#), researchers have discovered the software hiding in Chrome extensions, hacked Wordpress sites, and even [in the arsenal of a notorious "malvertising" hacker group](#).

Coinhive's miner isn't the only one out there, and hackers are using a variety of approaches to hijack computers. Kaspersky Lab recently reported finding cryptocurrency mining tools on 1.65 million of its clients' computers so far this year—well above last year's pace.

The researchers also recently detected several large botnets set up to profit from cryptocurrency mining, making a “conservative” estimate that such operations could generate up to \$30,000 a month. Beyond that, they’ve seen “growing numbers” of attempts to install mining tools on servers owned by organizations. **According to IBM’s X-Force security team**, cryptocurrency mining attacks aimed at enterprise networks jumped sixfold between January and August.

The researchers say that hackers are especially attracted to relatively new alternatives to Bitcoin, particularly Monero and zCash. That’s probably in part because these currencies have cryptographic features that make transactions untraceable by law enforcement (see “**Criminals Thought Bitcoin Was the Perfect Hiding Place, but They Thought Wrong**”). It’s also because hackers **can generate more profits** mining these newer currencies than they can with Bitcoin. Bitcoin-mining malware was extremely popular two or three years ago, but the currency’s popularity has, by design, made it more difficult to mine, warding off this kind of attack. Hackers are now embracing newer, easier-to-mine currencies.

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Malware containing cryptocurrency mining tools can be relatively straightforward to detect using antivirus software. But a new report from a cyber intelligence lead for the security firm **Darknet** says that operations set up by insiders, which can be much harder to detect, are also on the rise, he says—often carried

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high-level network privileges and the technical skills to turn their company's computing infrastructure into a cryptocurrency mine.

Produced in partnership with VMware

In one instance, Fier's team, which relies on machine learning to detect anomalous activity inside networks, noticed an employee at a major telecom company using a company computer in an unauthorized way to communicate with his home machine. Further investigation revealed that he had planned to turn his company's server room into a mining pool.

So long as there is a potential payday involved, such inside jobs are likely to remain high on the list of cybersecurity challenges that companies face. As for keeping hacked websites from hijacking your personal computer? In an ironic twist, **some ad blockers are now banning Coinhive.**

## Hear more about Bitcoin from the experts at the Business of Blockchain on April 23, 2018 in Cambridge.

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